

## LASER TARGETING AND ILLUMINATION SYSTEMS

### DESCRIPTION

The AN/PEM-1 is a Class 2 laser device that emits a highly collimated beam of visible light for precise zeroing. This system facilitates zeroing of I2 sights, thermal weapon sights, and laser aiming devices. The AN/PEM-1 has a low power laser setting that is useful when performing weapon bore sighting during daylight, low light and darkness conditions.

The AN/PEQ-16A is a Class 3b laser device that provides a highly collimated beam of infrared energy for weapon aiming and an adjustable focus infrared beam for target illumination. The AN/PEQ-16A also has a white light illuminator that provides target identification/illumination without the use of night vision devices.

The HPLP (IZLID) is a Class 4 infrared laser pointer and illuminator for use with night vision or infrared sensitive camera systems. The beam is adjustable from tight pinpoint to a wide flood beam with a quick twist of the lens. A multi-position switch allows the laser to operate at 3 different power levels: LOW (500mW); HIGH (900mW); and PULSE (1000mW@304Hz).

The AN/PSQ-18A Grenade Launcher Day Night Sight Mount (GLDNSM) is an enhanced aiming device designed to enable the Marine to rapidly and precisely fire the M203 40mm grenade launcher in daylight, low light, and night conditions.

### OPERATIONAL IMPACT

The AN/PEM-1 (LBS) enables Marines to quickly and accurately establish or reconfirm battle site zero (BZO) to weapons without consuming ammunition to verify the zero. The LBS is optimized for 5.56mm, 7.62mm, and .50 caliber weapons and their ancillary targeting devices (i.e., aiming lights, optical night vision, and thermal sights). In the training mode, the LBS will provide Marines with a training tool to practice zeroing skills. Employment of the LBS will reduce ammunition consumption associated with zeroing, and expedite the mission interchange of sights and targeting devices between weapons.

The AN-PEQ-16A will provide increased accuracy for every Marine by providing a laser aiming capability and the ability to illuminate targets in low light and night conditions when using a night vision device, a visible aiming light and an illumination capability to Marines that do not possess a night vision capability, and a visible white light that will allow the Marines to identify/illuminate targets in a low light environment.

The HPLP (IZLID) gives the Marine the option of using a pinpoint target pointer or a wide flood beam with the quick twist of a switch and allows the Marines to use 3 different power levels, low, high, and pulse.

The AN/PSQ-18A GLDNSM provides Marine grenadiers increased first or second round accuracy to within five meters.

PROGRAM STATUS

Procurement of an additional 2251 LBS systems will occur during fiscal year 2008. Procurement of the AN/PEQ-16A began in fiscal year 2007 and will extend through fiscal year 2008 with fielding scheduled to begin in fiscal year 2008. A total of 27 HPLP systems were procured in fiscal year 2007 with an additional 700 systems in fiscal year 2008 due to urgent need requirements to support Operation Iraqi Freedom. An additional 118 AN/PSQ-18A GLDNSMs are anticipated to be procured and fielded in fiscal year 2008.

Procurement Profile:	FY2008	FY2009
AN/PEM-1 (LBS)	2251	TBD
HPLP (IZLID)	700	TBD
AN/PSQ-18A (GLDNSM)	118	TBD
AN/PEQ-16A (MIPIM)	42,477	TBD

Developer/Manufacturer:  
LBS/GLDNSM/MIPIM: Insight Technologies, Londonderry, NH  
IZLID: B.E. Meyers & Co, Inc., Redmond, WA